

TOPCon 182 Solar Module

Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.(Potential Induced Degradation) under the test conditions.



High Efficiency

Higher module conversion efficiency benefit from half cell structure(low resistance characteristic).



Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



Severe Weather Resilience

Certified to withstand:Wind load(2400 pascal) and snow load(5400 pascal).



12-year Warranty for
Materials and Processing



30-year Warranty for
Extra Linear Power Output

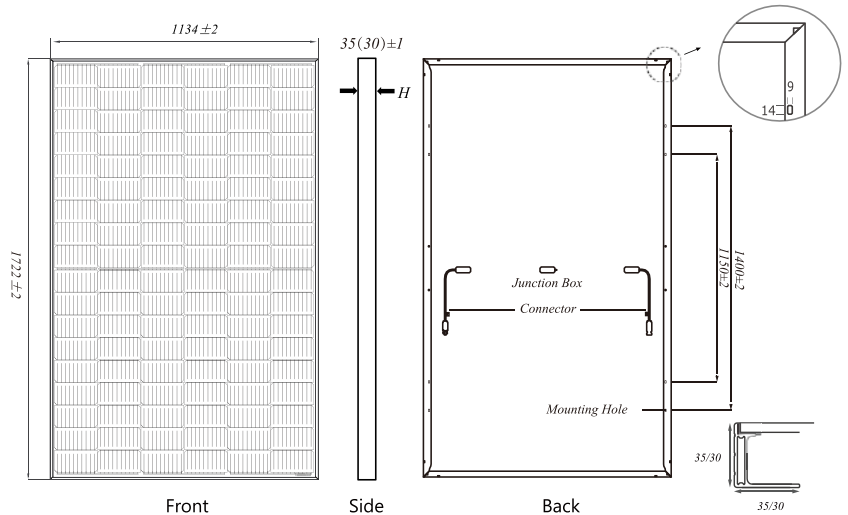


415-435W

STM415-435/108-S5

Half-Cut Cell High Efficiency PV Module

Weight	Dimension(LxWxT)
21.0kg±3%	1722x1134x35(30)mm
Cells Type	Packaging(pcs/40HQ container)
Mono 182-10BB	31/806pcs 37/962pcs



Remark: customized frame color and cable length available upon request

MECHANICAL SPECIFICATION

Cell	N-type mono-crystalline
No. of cells	108(6x18)
Cable Length	300mm(+)/300mm(-)
Cable Cross Section Size	4mm ² (IEC)
Junction Box	IP68, 3 diodes
Connector	MC4 Compatible

OPERATING PARAMETERS

Maximum System Voltage	1500VDC
Operating Temperature	-40 C ~ +85 C
Maximum Series Fuse	25A
Maximum Static Load, Front	5400Pa(112lb/ft ²)
Maximum Static Load, Back	2400Pa(50lb/ft ²)
Safety Class	Class II

ELECTRICAL CHARACTERISTICS

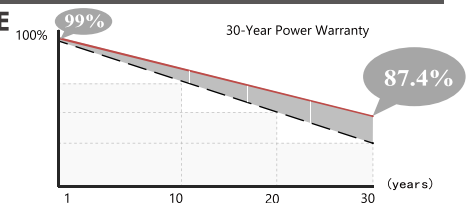
STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s Test uncertainty for Pmax ±3%

Module Type	STM415/108-S5		STM420/108-S5		STM425/108-S5		STM430/108-S5		STM435/108-S5	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax/W)	415	315	420	318	425	322	430	326	435	330
Open Circuit Voltage(Voc/V)	37.7	36.0	37.9	36.2	38.1	36.4	38.3	36.6	38.4	36.8
Short Circuit Current(Isc/A)	13.91	11.22	13.98	11.27	14.05	11.33	14.12	11.38	14.18	11.44
Voltage at Maximum Power(Vmp/V)	31.7	29.8	31.9	30	32.1	30.02	32.3	30.3	32.5	30.5
Current at Maximum Power(Imp/A)	13.10	10.56	13.17	10.62	13.24	10.67	13.32	10.74	13.39	10.82
Module Efficiency(%)	21.25		21.51		21.76		22.02		22.27	

TEMPERATURE RATINGS

Norminal Operating Cell Temperature(NOCT)	45±2 C
Temperature Coefficient of Isc	+0.045%/C
Temperature Coefficient of Voc	-0.275%/C
Temperature Coefficient of Pmax	-0.350%/C

ADDITIONAL VALUE



I-V CURVE(STM415-435/108-S5)

